



Universal Prevention in Schools

Dr. Jason Fruth – Wright State University – www.wrightofer.com



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- The PAX Good Behavior Game®
- A set of research-based strategies employed in the classroom that teach self-regulation
- This self-regulation creates
 - More nurturing environments
 - Increased academic performance
 - Improved long-term outcomes

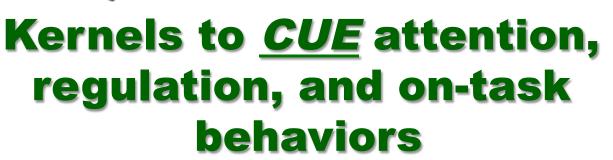


Evidence-Based Kernels











Evidence-Based Kernels









Kernels to <u>REINFORCE</u> task completion, regulation, and pro-social behaviors



Evidence-Based Kernels





PAX Hands

PAX Hands help.

PAX Hands never hurt.





"You are showing respectful, responsible and safe feet, Great PAX!"





is 0-inch voice (no sound)



is 3-inch voice (whispering only)



is 3-foot voice (normal talking)



is 10-foot voice (louder talking)







Kernels to create shared **RELATIONAL FRAMES** and understanding















The PAX Game

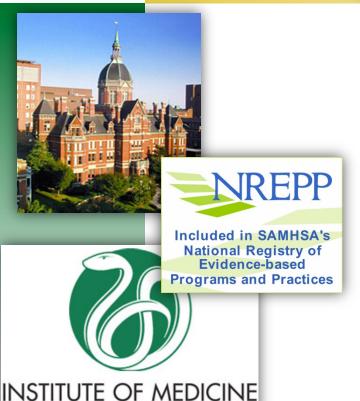












OF THE NATIONAL ACADEMIES

- The Good Behavior Game has undergone multiple randomized control trials with over 25 years of longitudinal research from Johns Hopkins University
- Recommended in:
- National Registry of Evidence-based Programs and Practices
- The 2009 Institute of Medicine Report
- Washington State Institute for Public Policy Report





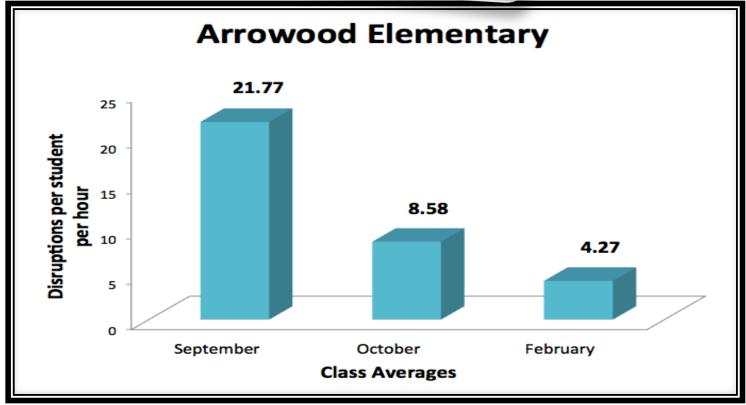


PAX Classes typically show:

- 60-90 additional minutes of instruction
- 75% drop in disruptions
- 60% drop in discipline referrals
- 20-30% drop in identification for special ed.

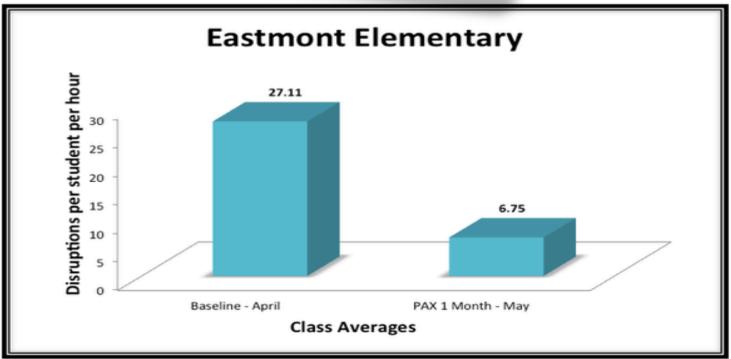








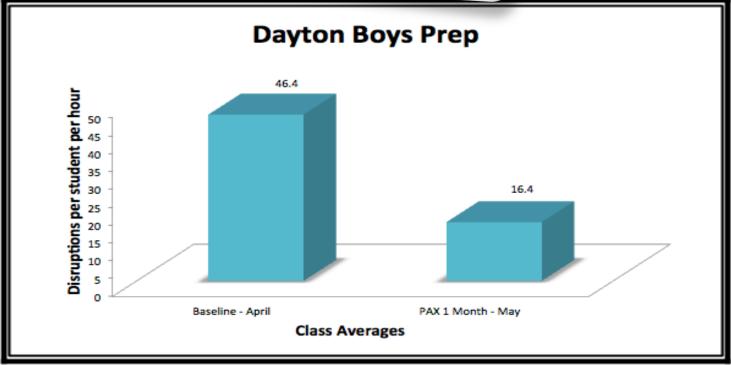




Total Disruptions per student per hour for Eastmont Elementary during the 2012-2013 school year





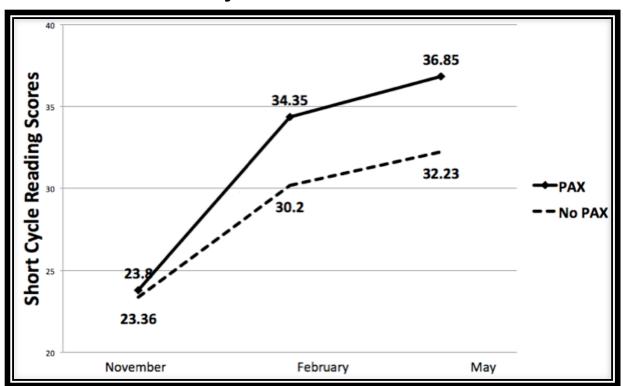


Total disruptions per student per hour for Dayton Boys Prep during the 2012-2013 school year





Saville Elementary 2012-2013







Impact of a Universal Prevention Strategy on Reading and Behavioral Outcomes

Dr. Jason Fruth
Reading Improvement



Background

This study examined the impact of a classroom-based universal preventive intervention (PAX Good Behavior Game) on proximal and distal outcomes of 4th graders. This intervention was introduced at the beginning of the school year, and behavioral (disruptions per student per hour) and academic (short cycle reading performance) outcomes were tracked throughout the year as well as compared to control classrooms.

Efficacy Trials

The PAX Good Behavior Game has undergone multiple randomized control trials from Johns Hopkins University. These trials found PAX classrooms to have:

- 60-90 minutes of additional instruction
- · 75% fewer disruptions
- · 60% fewer discipline referrals
- 20-30% drop in identification for special education services

When these PAX students were tracked to age 21, they found that PAX students had:

- · 50% less drug dependence
- · 68% less tobacco use
- · 35% less alcohol dependence
- · 32% less criminal activity



Methods

4th grade students receiving PAX GBG had their proximal outcomes (disruptions per student per hour) tracked as a part of a within group repeated measures design and had their distal outcomes (short cycle reading performance) tracked and compared to the control group of 4th graders receiving the business-as-usual classroom instruction.

The PAX Good Behavior Game involves teaching self-regulation through the administration of 5 evidence-based kernels, 4 research-based cues, and the soft team competition of the Good Behavior Game.





PAX Hands

PAX Hands

help.

PAX Hands

never hurt.

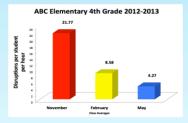
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By using PAX to adjust the antecedents, reinforcement, and relational frames in the classroom during normal academic activities, students begin to show drastic improvements in behavior and performance.

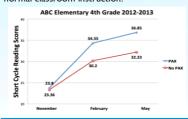


Results

4th grade students receiving the PAX Good Behavior Game demonstrated a significant decrease in disruptive behavior throughout the year.



Students receiving the PAX Good Behavior Game also demonstrated substantially higher reading scores than students receiving normal classroom instruction.



Conclusion

This effectiveness trial yielded similar results to the efficacy trials carried out in ideal clinical conditions over the past 25 years. This indicates that teachers can successfully carry out universal prevention interventions in the classroom and see an improvement in academic and behavioral outcomes.

Discussion

The PAX Good Behavior Game appears in the Substance Abuse and Mental Health Services Administration's National Registry of Evidence-based Programs and Practices. It is also recommended by name in the 2009 Institute of Medicine Report. When teachers use the PAX Good Behavior Game in the classroom, they are not only increasing the peace, health, happiness, and productivity of their students. They are teaching self-regulation and not merely administering classroom management. This self-regulation lasts a lifetime. In fact, a teacher who uses the PAX Good Behavior Game throughout a 30-year career will likely have:

- 66 more girls graduate from high school
- 49 more boys graduate from college
- 7 fewer boys convicted of violent crimes
- 72 fewer students develop drug addictions
- 49 fewer students using tobacco
- · 27 fewer students using alcohol

The financial impact of this one teacher using the PAX Good Behavior Game on society amounts to over \$9,700,000 in savings to local, state, and national communities and governments.

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PAX Training for In-service Teachers



PAX Training at WSU





- Teachers' Sense of Efficacy
- Proven predictor for:
 - Job Satisfaction
 - Teacher Performance
 - Turnover Rate



PAX Training at WSU



Pre/Post Mean Scores in Teacher Efficacy



 Statistically significant increase in teacher efficacy for In-service teachers

^{*}Statistically Significant Growth After Paired Samples t-Test



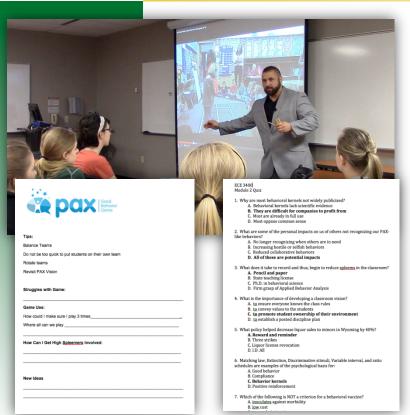




- PAX Pre-service course now offered at Wright State University
- This course includes in-class presentations, online modules, and field observations in PAX Schools







In-class instruction features direct instruction and modeling of behavioral kernels

Candidates also have organic practice and application of behaviorism principles through video and cooperative work





The Impact of the Good Behavior Game, a Universal Classroom-Based Preventive Intervention in First and Second Grades, on High-Risk Sexual Behaviors and Drug Abuse and Dependence Disorders into Young Adulthood

Sheppard G. Kellam · Wei Wang · Amelia C. L. Mackenzie · C. Hendricks Brown · Danielle C. Ompad · Flora Or · Nicholas S. Ialongo · Jeanne M. Poduska · Amy Windham

Abstract The Good Behavior Game (GBG), a method of

ual behaviors, and drug abuse and dependence disorders

C Society for Prevention Research 2013

♠ Subscribe to Topic teacher classroom behavior management, was tested in firstand second-grade classrooms in 19 Baltimore City Public Schools beginning in the 1985-1986 school year. The intervention was directed at the classroom as a whole to socialize children to the student role and reduce aggressive, disruptive behaviors, confirmed antecedents of a profile of externalizing problem outcomes. This article reports on the GBG impact on the courses and interrelationships among aggressive, disruptive behavior through middle school, risky sex-

More Actions ♥

through ages 19-21. In five poor to lower-middle class mainly African American urban areas, classrooms within matched schools were assigned randomly to either the GBG intervention or the control condition. Balanced assignment of children to classrooms was made, and teachers were randomly assigned to intervention or control. Analyses involved multilevel growth mixture modeling. By young adulthood, significant GBG impact was found in terms of reduced high-risk sexual behaviors and drug abuse and dependence disorders among males who in first grade and through middle school were more aggressive, disruptive. A

Electronic supplementary material The online version of this article (doi:10.1007/s11121-012-0296-z) contains supplementary material, which is available to authorized users

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Jan 21, 2014 8:19 PM Spleem Counting Discussion Jodi Grillot Spleem Counting Discussion Raedah Alofi Jan 21, 2014 8:07 PM Jan 21, 2014 8:07 PM Spleem Counting Discussion Morgan Detty Spleems Baker Samantha Baker Jan 21, 2014 8:05 PM Spleem Counting Discussion Manal Allogmani Jan 21, 2014 7:52 PM ■ Spleem Counting Discussion Achley Noble Jan 21, 2014 7:34 PM Re: Spleem Counting Discussion Jan 21, 2014 8:11 PM Online modules provide for enrichment through reflection and

exchange of ideas in online discussions among candidates

Online modules also contain weekly research summaries and quizzes





Pilot: ECE-3400-02 - Classroo

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Spleem Counting Discussion











































- Field experiences allow candidates to practice PAX Strategies
- Research Projects allow candidates to align PAX Principles with state and local initiatives



PAX in ECE at WSU

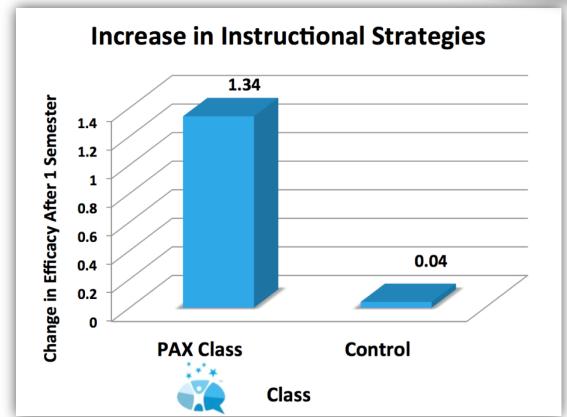




PAX Instruction for Early Childhood Education Candidates

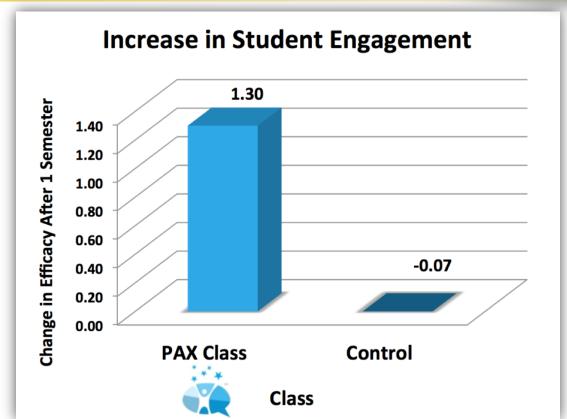






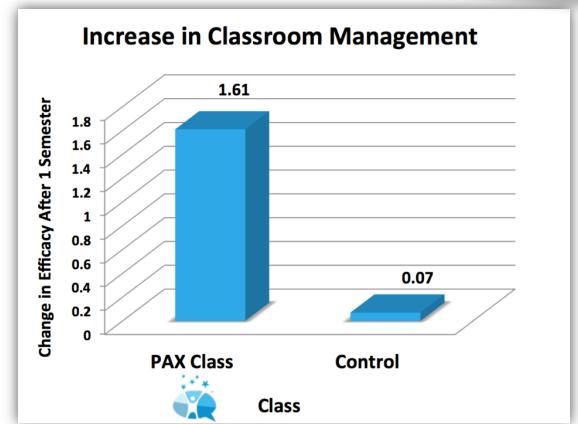
















The Impact of a Universal Preventive Intervention on Teacher Candidates

18.8 197.2** 6.6 64.7** 6.6 65.0** 7.1 67.4**

Dr. Jason Fruth & Dr. Mary Huber Journal of Education and Human Development

Background

This study examined the impact of a universal preventive intervention (the PAX Good Behavior Game) on the sense of efficacy of pre-service teacher candidates. This classroom-based universal preventive intervention is listed in the National Registry of Evidence-based Programs and Practices and is recommended by the 2009 Institute of Medicine Report. It has shown to proximally decrease disruptive behaviors, stabilize and decrease both depressive and aggressive symptoms, while increasing instructional time and on-task behavior. It has shown to longitudinally increase graduation rates and college entrance rates, while decreasing drug dependence, tobacco use, alcohol dependence, risky sexual behavior, and suicide ideation. However, as this intervention had only been instructed as a professional development workshop for practicing teachers, little was known about the impact of including universal prevention training as a part of a pre-service teacher education program on the sense of efficacy of pre-service teacher candidates.

Methods

This randomized control study examined the impact of the exclusive Wright State University PAX Pre-service Teacher Training Course on the sense of efficacy of early childhood pre-service teacher candidates. Treatment students received a semester-long course in the PAX Good Behavior Game in addition to their pre-service training, while control students received the normal early childhood program. The Teachers' Sense of Efficacy Scale was used to measure the growth in efficacy of the two groups.

Increase in Instructional Strategies Increase in Student Engagement Increase in Classroom Management Incr

Student engagement

Results

Paired t-tests showed that PAX candidates demonstrated a greater sense of efficacy after receiving PAX instruction. Independent t-tests showed PAX students to have a greater sense of efficacy than the control students in the areas of Instructional Strategies, Student Engagement, and Classroom Management.

Student engagement Classroom management 8.3 65.0** 6.2 67.4*

Conclusions

Teachers' sense of efficacy has shown to predict teacher performance, teacher retention, and student performance. Thus, increasing this efficacy with a proven universal preventive intervention can have tremendous impacts on teachers and students. In fact, this student/teacher improvement lends itself to a transactional model in which teacher performance and behavior not only influences but is also influenced by student performance and behavior. This constant dynamic exchange and improvement can explain the tremendous longitudinal impacts that the PAX Good Behavior Game has on children.

WRIGHT STATE

UNIVERSITY

The ONLY accredited PAX Pre-Service
Teacher Training in the United States
is at Wright State University







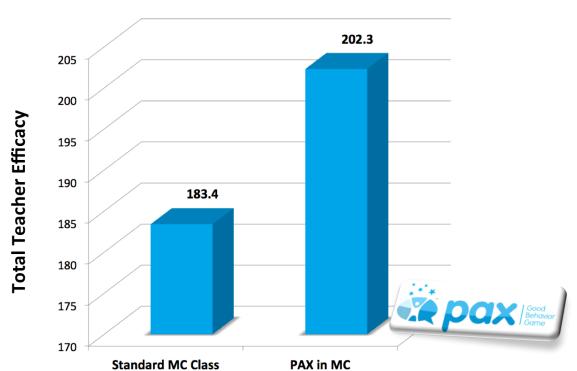
PAX Instruction for Middle Childhood Education Candidates



PAX in MCE at WSU



Standard vs. PAX Class in Middle Childhood



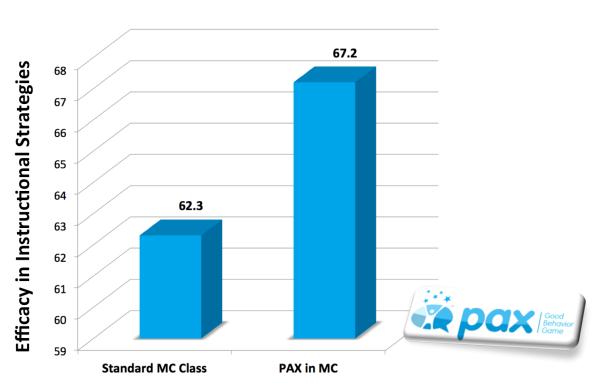
Statistically significant increase over control in overall teacher efficacy

^{*}Statistically Significant Growth After Independent Samples t-Test





Standard vs. PAX Class in Middle Childhood



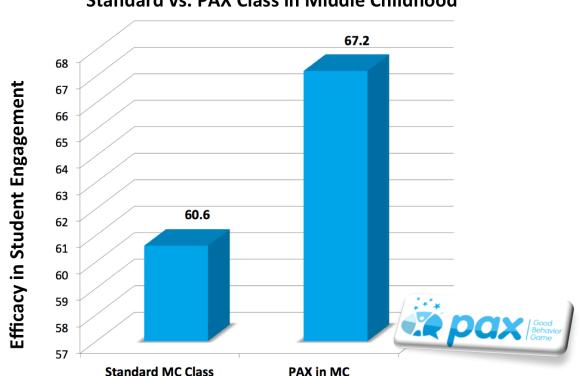
Statistically significant increase over control in instructional strategies

^{*}Statistically Significant Growth After Independent Samples t-Test





Standard vs. PAX Class in Middle Childhood



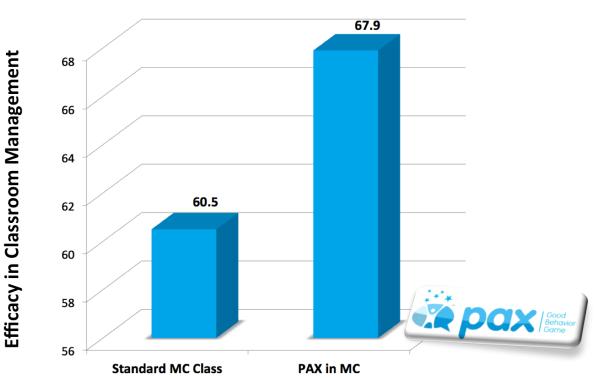
Statistically significant increase over control in student engagement

^{*}Statistically Significant Growth After Independent Samples t-Test





Standard vs. PAX Class in Middle Childhood



Statistically significant increase over control in classroom management

^{*}Statistically Significant Growth After Independent Samples t-Test





Effect of Universal Prevention on Efficacy of Pre-service Middle Childhood Teachers Dr. Jason Fruth & Dr. Mary Huber- Wright State University



Conclusions





The extended exposure to evidencebased principles along with experiences with PAX GBG in the field, student-directed literature reviews, group research projects, and in-class and online instruction allowed teacher candidates tremendous depth to their study and understanding of prevention, selfregulation, and behavior. Teacher candidates report higher levels of efficacy after participating in PAX GBG instructional courses, and are more ready to enter the field as effective and professional educators.



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Background

This study examines the effect of providing universal preventive intervention training with the PAX Good Behavior Game on the sense of efficacy of pre-service middle childhood teacher candidates when delivered as a part of their teacher education program. Numerous longitudinal studies have outlined the proximal and distal outcomes of PAX GBG on students. PAX GBG has also shown to increase the sense of efficacy in pre-service and inservice early childhood teachers.



PAX GBG and Efficacy

In previous studies, PAX GBG has shown to increase teachers' sense of efficacy. Whether delivered as a part of a preservice teacher education program or inservice teacher professional development, PAX GBG training includes classroom management, social/emotional, and group dynamics skill modeling. This experience caused an overall increase in many target areas including:

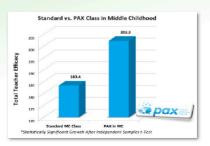
- **Overall Teacher Self Efficacy**
- Student Engagement Instructional Strategies
- Classroom Management

Methods

The 31 participants in this study were members of a four-year undergraduate middle childhood education program. This program requires a classroom management course as a part of the undergraduate educational study for preservice teacher candidates.

One section for this course requirement was selected to receive PAX GBG universal prevention training as a part of the classroom management course requirement. Minor modifications were made to the trauma-informed prevention strategies and delivery of PAX GBG to make it appropriate and useful for application in the 4th through 9th grades for middle childhood teacher candidates. The Teacher's Sense of Efficacy Scale, a 24 item questionnaire, was used to assess and compare teacher candidate performance.

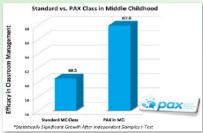
Results



Results

Paired t-tests showed that teacher candidates in the PAX GBG group scored significantly higher on overall TSE (202.3 vs. 165.0) as well as on the three subscales: Instructional strategies (67.2 vs. 54.8), student engagement (67.2 vs. 56.3) and classroom management (67.9 vs. 54.8) at the conclusion of the course compared to before the course.





Independent t-tests showed that PAX GBG candidates demonstrated a significantly higher sense of efficacy after the course than those without training in overall efficacy (202.3 vs. 183.4) as well as on the three subtests: Instructional strategies (62.3 vs. 67.2), student engagement (60.6 vs. 67.2) and classroom management (60.5 vs. 67.9).





PAX for Pre-Service Teachers at Wright State University

"I have fallen in love with the idea of PAX as a way to manage the classroom. PAX and the structure of ECE 3400 allowed me to become a better teacher by giving me more tools in my toolbox." - Samantha Baker

"Not only does it create a nurturing environment for all students, but it makes class time fun! PAX Good Behavior Game has given me faith in my ability as a future teacher."

- Kacie Carney

"Not only is it beneficial for the students, but it also benefits the teachers. Who doesn't want to be that awesome teacher all the students wish they had? PAX allows me to be that teacher by engaging my students in learning but also having fun!" - Kristin Burns



(L-R) Samantha Baker, Kacie Carney, Kristin Burns. Spring 2014 PAX Pre-service cohort members.



The PAX Game



The Four Classroom Miracles

- Learning to read
- Learning to write
- Learning to do math
- Learning
- self-regulation,
- self-control, and
- self-management



Most teachers learned how to create these from teacher education and professional development.

This is what teachers learn to teach with PAX GBG.

The Evidence-based approach to behavior





Criteria	Phonics	pax Good Behavior
Research base for 85% + success rate		
Improves student outcomes regardless of language, culture, or background		
Having skillset increases teacher efficacy, satisfaction, retention		
Parent support improves results but NOT mandatory		
Adopted as the universal approach to the content		COMINO







By age 21, PAX students show:

- 50% drop in drug dependence
- 68% drop in tobacco use
- 35% drop in alcohol dependence
- 32% drop in criminal behavior
- 50% drop in suicide ideation



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